



FEATURES

- * EXCELLENT COMBINING EFFICIENCY
- * HIGH POWER HANDLING
- * LOW INSERTION LOSS & VSWR
- * MULTIPLE CHANNEL COMBINING USING TWO OR MORE IN SERIES.
- * HIGH ISOLATION BETWEEN CHANNELS

SPECIFICATIONS

FREQUENCY

| | |
|--------|------------------------------------|
| PORT 1 | ANY 36 MHz BAND (5850-6425) |
| PORT 2 | 5850 TO 6425 MHz EXCEPT fo ±60 MHz |

ISOLATION

| | |
|------------------|---|
| PORT 1 TO PORT 2 | 20 dB MIN (fo)±18 MHz (fo determined by customer) |
| PORT 1 TO PORT 3 | 40 dB MIN (fo ±60 MHz) |

INSERTION LOSS

| | |
|------------------|--|
| PORT 1 TO PORT 3 | 0.40 dB MAX @ fo, 0.55 dB MAX @ fo ±18 MHz |
| PORT 2 TO PORT 3 | 0.1 dB MAX @ fo ±80 MHz OR MORE |
| | 0.15 dB MAX @ fo ±60 MHz |

VSWR

| | |
|--------|-------------|
| Port 1 | 1.15:1 max. |
| Port 2 | 1.20:1 max. |

GROUP DELAY IN BAND (MAX)

| | PORT 1-3 | PORT 2-3 | |
|-----------|----------|----------|---------------------|
| LINEAR | 0.1 | 0.1 | ns/MHz |
| PARABOLIC | 0.015 | 0.002 | ns/MHz ² |
| RIPPLE | 0.5 | 0.25 | ns p-p |

AMPLITUDE RESPONSE

0.1 dB MAX (WITHIN PASSBAND)

POWER HANDLING

| | |
|--------|-------------|
| 3.5 KW | PORT 1 TO 3 |
| 7.5 KW | PORT 2 TO 3 |

MECHANICAL SPECIFICATIONS

MATERIAL - MATING FLANGES BRASS
 FINISH - HIGH TEMPERATURE BLACK
 FLANGES - WR 137 CPR
 PRESSURE - 10 PSIG MAX.
 TOLERANCES - 3 PLACES ± 0.10
 2 PLACES ± 0.20

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DIPLEXER WR-137

| | | | |
|-----------|----------|-------------|-----|
| | SIZE | DRAWING NO. | REV |
| | C | 2200-0000 | - |
| FILE:DIP1 | 12/13/99 | | |